KODAK DC4800 Zoom Digital Camera User's Guide

Congratulations on your purchase of the new KODAK DC4800 Zoom Digital Camera—the camera that takes pictures digitally, without the use of film. With your new camera, picture taking and print making is fun and easy. Here are just a few examples of what you can do with your camera:

- Get the images you want by adjusting the camera settings—shutter speed, aperture, ISO levels, white balance, and more.
- Capture full detail with 3.1 Megapixel uncompressed resolution.
- Transfer your pictures to a computer for instant editing, enhancement, or placement into a document.
- Print high-quality pictures at home using KODAK Inkjet Photo Paper, or take your KODAK Picture Card to a KODAK Picture Maker System and create photo-quality enlargements with a touch of a button.

Visit Kodak on the World Wide Web at www.kodak.com

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1 Getting Started

This chapter describes how to prepare your camera for taking pictures. It also describes the camera menus and settings, and how to access them.

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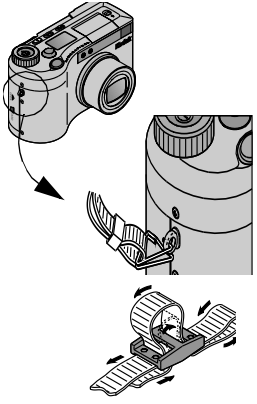
Attaching the Neck Strap



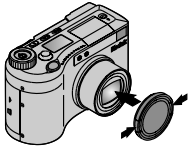
1 Attach the metal clips on the ends of the neck strap to the strap post on each side of the camera.

2 Put the ends of the neck strap through the metal clips.

3 Thread the strap through the plastic clips as shown.

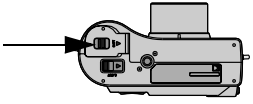
Using the Lens Cap

To protect the lens, cover it with the lens cap whenever you are not taking pictures.



Depress the tabs on the lens cap, fit the cap on the lens, and release the tabs.

Loading the Battery



1 Slide the battery door as illustrated, then lift to open.

2 Insert the battery in the correct orientation, with the arrow and the (+)(-) symbols facing down, as illustrated.

3 Close the door.

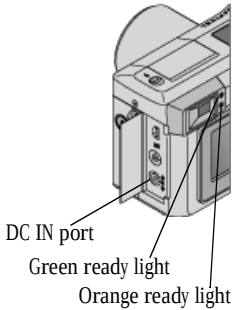
After you load a new or recharged battery, we recommend that you check the camera's date/time information. See "Setting the Clock" on page 8.

Charging the Battery

Use the AC adapter to charge the battery. Complete charging takes four hours.You may not use the camera while the battery is charging.

It is not necessary to charge the battery before taking pictures. You can turn the camera on and take pictures with the AC adapter at any time. However, the battery will not charge unless the camera is off and the AC adapter is plugged in.

***CAUTION**: It is important to use only a KODAK-specified 5V AC adapter with your camera. Using a different adapter or one with a different voltage could damage your camera and battery.*



Make sure the camera is off.

1. Load the battery in the camera.
2. Plug the AC adapter into the DC IN port on the camera.
3. Plug the AC adapter into a power outlet.

   Charging takes four hours. You may not take pictures while the battery is charging.

   The orange ready light is on when the battery is charging. The green ready light is on when charging is complete.

   Some AC adapters are supplied with additional power plugs. Use the plug that accommodates your type of power outlet.

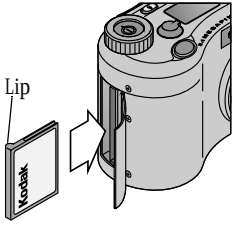
For fast one-hour charging, a battery charger is sold separately. Visit our Web site at http://www.kodak.com/go/accessories.

Inserting a Picture Card

The KODAK Picture Card, included with your camera, stores your pictures as you take them. You must insert a Picture Card into the camera before you take pictures. Use only certified cards that carry the CompactFlash logo

Extra cards can be purchased separately on our Web site at http://www.kodak.com/go/accessories.

NOTE: Think of Picture Cards as removable and reusable film, except they are x-ray safe and provide easy storage and transfer of pictures.



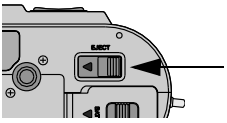
1 Open the Picture Card door on the camera.

2 Hold the Picture Card by the lip so the connection end is pointed at the camera.

The Picture Card can only be inserted one way into the camera. Forcing the card may damage your camera.

3 Slide the Picture Card all the way into the card slot and close the door.

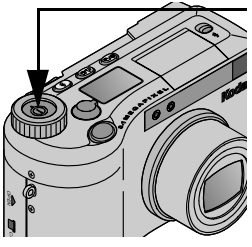
Removing a Picture Card



1 Turn off the camera.
2 Open the Picture Card door on the camera.
3 Slide the Eject button as illustrated. The Eject button is located on the bottom of the camera.
4 Remove the Picture Card.

***CAUTION**: Do not insert or eject a Picture Card when the green Picture Card access light is blinking. Doing so may damage your pictures or camera.*

Turning the Camera On and Off



- To turn on the camera, press the power button.

  The orange ready light and the Status Display turn on. The lens extends if the Mode Dial is in a Capture setting (P, 2.8, 5.6, or 8).
- To turn off the camera, press and hold the power button for one second.

Checking the Battery

If your battery power is low, a symbol indicating the battery power level appears in the Status Display when you turn on the camera.

For guidelines on battery usage, see page 99.

NOTE: Always keep an extra battery ready. Consider purchasing a battery and battery charger, sold separately on our Web site *at http://www.kodak.com/go/accessories.*

1 Turn on the camera.

2 Check the battery symbol that appears in the Status Display. If no symbol appears, your battery is fully charged.

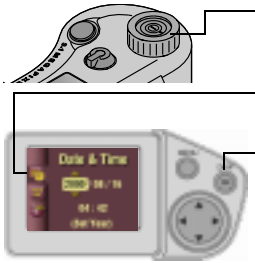
Low—not fully charged and soon needs to be replaced or recharged.

Exhausted (blinking)—too weak to power the camera and needs to be replaced or recharged.

Setting the Clock

The camera has a built-in clock that maintains the date and time in a 24-hour format. If the battery is removed from the camera for an extended period of time, or is exhausted, you may need to reset the clock.

NOTE: It is important to set the correct date and time if you want to imprint the date on your pictures. See page 40.



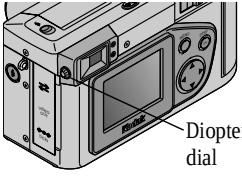
1. With the camera turned on, turn the Mode Dial to Setup.
2. Press a ▲/▼ button until the icon in the LCD is highlighted.
3. Press OK.

   The date/time screen appears.
4. Press a ◀/▶ button to adjust the date and time fields.
5. Press OK to accept the changes.

Adjusting the Viewfinder

Use the diopter dial to customize the viewfinder for your eyesight.

NOTE: This feature is helpful when several people are using the camera, or when the person using the camera is wearing glasses. Adjusting the diopter has no effect on the camera auto focus.



1 With the camera turned on, point the camera at a well-lit area.

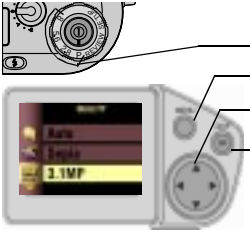
2 Look through the viewfinder and turn the diopter dial until the scene you are framing appears sharp and focused.

Camera Menus Overview

There are three main menus in the KODAK DC4800 Zoom Digital Camera. The options in the menus allow you to change settings for taking pictures, reviewing pictures, and for camera setup functions. This section explains how to access each of the menus, and lists the options available in each.

Manual Picture Taking Menu

If you want more control over how your pictures will look, use the settings in the Picture Taking Menu. These settings override the camera's automatic settings. For details on applying the settings, refer to the page listed under the Menu Name below.



To access the Picture Taking Menus:

Set the Mode dial to a Capture setting

Press **Menu**

Scroll through the menus, options

Select

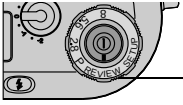
Menu Icon	Menu Name (page in this manual)	Menu Icon	Menu Name (page in this manual)
	White Balance (page 31)		**Sharpness** (page 38)
	Color Mode (page 33)		**ISO** (page 39)
	Picture Quality (page 35)		**Shutter Speed** (page 18)

Exposure Metering
(page 37)

Date and Time Stamp
(page 40)

Review Pictures Menu

Use the options in the Review Menu to work with the pictures on the Picture Card in your camera. For details on applying the options, refer to the page listed under the Menu Name below.



To access the Review Menus:

Turn the Mode Dial to **Review**

Press **Menu**

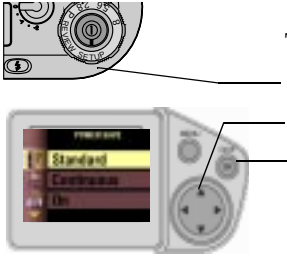
Scroll through the pictures, menus, option

Select

Menu Icon	Menu Name (page in this manual)	Menu Icon	Menu Name (page in this manual)
	Magnify (page 43)		**Slide Show** (page 46)
	Delete (page 44)		**Print Order** (page 47)
	Protect (page 45)		**Picture Info** (page 49)

Camera Setup Menu

Use the options in the Setup Menu to customize your camera according to your personal preferences. For details on applying the options, refer to the page listed under the Menu Name below.



To access the Setup Menus:

Turn the Mode Dial to **Setup**

Scroll through the menus, options

Select

Menu Icon	Menu Name (page in this manual)
	Power Save (page 52)
	Digital Zoom (page 54)
	Camera Sounds (page 56)
	Date and Time (page 8)
VIDEO OUT	**Video Out** (page 57)

Menu Icon	Menu Name (page in this manual)
	Language (page 58)
	Format Picture Card (page 59)
	Camera Reset (page 60)
	About this Camera (page 61)

2 Taking Pictures

Use the automatic features of your camera and take your pictures with a simple point and click. Or, you can take advantage of the manual settings if you prefer more control over how your pictures will look.

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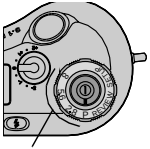
For help on using more advanced camera settings, see Chapter 3, Customizing Manual Settings.

Choosing a Capture Mode

Before you take a picture, turn the Mode Dial to your preferred capture mode.

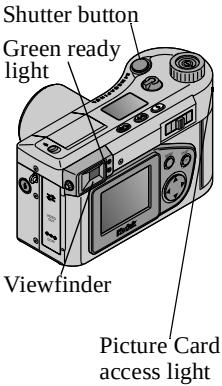


Capture modes

- **P**—use this setting when you are shooting with the fully-automatic Programmed AE mode. See page 16.
- **f-numbers (2.8, 5.6, 8)**—use the f-number settings when you are shooting in the Manual (page 17) or Aperture Priority (page 19) modes.

Taking a Picture

With the battery charged (or AC power supplied) and a Picture Card inserted, all you need to do is turn on the camera, select a capture mode, and take a picture.



1 Center the subject in the viewfinder brackets, or use Preview (page 22).

2 Press the Shutter button half-way to lock in the auto focus and exposure, and to display the shutter speed in the Status Display.

The ready light glows green.

3 Press the Shutter button completely down to take the picture.

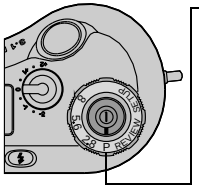
- The green Picture Card access light flashes.
- In the Status Display, the frame counter blinks and displays the number of pictures remaining. This number can change depending on resolution and Picture Card capacity.
- The picture appears in the LCD (unless you are using battery power with Power Save on).

Shooting in Fully Automatic Mode

When shooting pictures with the fully automatic, or Programmed AE, mode the camera automatically sets the f-number and shutter speed based on the brightness of the subject. All you do is take the picture.

You can set a specific ISO speed, or leave the default at Auto (page 39).

NOTE: Use this shooting method to concentrate on picture composition, without worrying about exposure.



1. Set the Mode Dial to P.

   If you previously selected a shutter speed (page 18), the camera overrides that setting with an automatic setting only while in P mode.
2. Press the Shutter button half-way to lock in the focus and exposure.
3. Press the Shutter button completely down to take the picture.

Shooting in Manual Mode

Use Manual mode when you want to control exposure, instead of using the camera's automatic settings. Consider using a hand-held light meter to help you determine your settings.

When shooting pictures in Manual mode, you choose the f-number and the shutter speed. You can set a specific ISO speed if you wish (page 39).

Do not adjust the exposure compensation dial (page 30) while in Manual mode.

1 On the Mode Dial, select an f-number. See page 17.

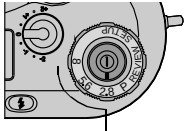
2 Press the Menu button and set the shutter speed. See page 18.

3 Press the Shutter button half-way to lock in the focus and exposure.

4 Press the Shutter button completely down to take the picture.

Setting the f-number

The f-number controls the size of the lens opening, or aperture, which determines your depth of field (the distance range within which a picture looks sharp). The larger the f-number, the smaller the aperture.



On the Mode Dial, select an f-number setting.

- **f/8**—best depth of field, making the foreground and background sharp. Ideal for landscapes and well-lit scenes.
- **f/5.6**—moderate depth of field, making the foreground sharp with slight blurring of the background.
- **f/2.8**—minimum depth of field, making the foreground sharp and the background blurry. Ideal for portraits or low-light scenes.

Setting the Shutter Speed

To set the shutter speed:

1 Press the Menu button to display the Menu screen.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the Shutter Speed screen.

4 Press a ▲/▼ button to highlight the setting you want to use.

- **AUTO**—use when shooting with the fully automatic (P) or aperture priority modes. Do not select for manual shooting.
- **MANUAL**—press OK and use the ▲/▼ to select a shutter speed range from 1/2 to 1/1000 of a second.
- **LONG TIME EXPOSURE**—press OK and use the ▲/▼ to select a shutter speed range from 0.7 to 16 seconds.

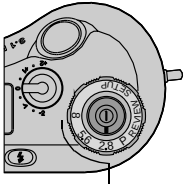
For shutter speeds slower then 1/30 of a second, use a tripod to avoid camera shake.

5 Press OK to accept the changes.
The M (Manual) icon appears in the Status Display.

Shooting in Aperture Priority Mode

To take pictures in Aperture Priority mode, select an f-number to set the aperture. The camera automatically selects a compatible shutter speed. You can set a specific ISO speed if you wish (page 39).

NOTE: Use this shooting mode when you want control over the depth of field (the distance range within which a picture looks sharp) but you want the camera to automatically set the shutter speed.



1. On the Mode Dial, select an f-number. See "Setting the f-number" on page 17.
2. Make sure the shutter speed is set to Auto. See page 18.
3. Press the Shutter button half-way to lock the focus and exposure.
4. Press the Shutter button completely down to take the picture.

Shooting a Burst Series of Pictures

With the Burst feature, you can take a series of separate, still pictures in quick succession. The number of pictures you get in the series depends on your Picture Quality setting (page 35). When you shoot with the Burst feature, the built-in flash is turned off. However, an external flash is always active when connected.

In the lowest Picture Quality setting, 0.8 MP (1080 x 720), you can take a maximum of 16 pictures in sequence. With other settings, the maximum is 4 pictures.

NOTE: This setting is ideal for taking pictures of sporting events, or for recording moving objects.

To shoot in Burst mode:

1 Select a capture mode on the Mode Dial.

2 Press the button until the icon appears in the Status Display.

3 Press the Shutter button half-way to lock the focus and exposure for all of the pictures in the sequence.

4 Press and hold the Shutter button all the way down to take the pictures.

The camera beeps, then starts taking pictures until you release the Shutter button, or until the Burst sequence is complete.

Shooting Distant and Close-Up Pictures

Use the button to take pictures of scenes that are either very far away or very close.

Distant Pictures

Use the Distant setting to gain maximum sharpness of far away scenes. With this setting, the camera uses a fixed, infinite focus.

Close-Up Pictures

Use the Close-Up setting to gain sharpness and detail in pictures at close range. When selected, the camera automatically sets the focus distance at 0.7 to 2.3 ft. (0.2 to 0.7 m). It is not recommended to adjust the diopter dial (page 9) when Close-Up is selected.

To choose the setting:

1 Select a capture mode on the Mode Dial.

2 Press the button repeatedly until the appropriate icon appears in the Status Display.

3 Press the Shutter button half-way to lock the focus and exposure.

4 Press the shutter button all the way down to take the picture.

Previewing Your Picture

If you want to see what a picture looks like before it is taken, you can preview a live image on the LCD. With Preview activated, use the LCD instead of the viewfinder to frame your picture.

When you use Preview, the battery is drained at a fast rate, so use the AC Adapter when possible. The flash may also take slightly longer to charge when you use Preview.

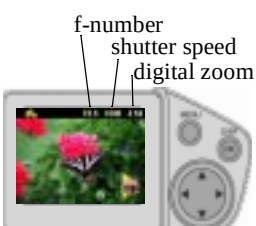
NOTE: Preview is required when you are using digital zooming (page 24), or when performing manual White Balance (page 38). Preview is not required but is ideal for shooting Close-Ups (page 21).

1 Press the OK button.

The LCD displays a live image.

2 To take a picture in Preview, center the subject on the LCD.

To view the last picture taken, press the ▶ button.



3 Press the Shutter button half-way to lock the focus and exposure.

The LCD displays the live image, the activated icons, and the activated camera settings.

4 Press the Shutter button completely down to take the picture.

Viewing and Deleting the Last Picture

When you take a picture, Automatic Quickview displays the picture on the LCD for several seconds, unless you are using battery power with Power Save on (page 52). While the picture is displayed, you can decide to keep or delete it.

NOTE: This feature is ideal for verifying picture information, like shutter speed and aperture. You can also magnify the image to verify details.

Press to delete

When you take a picture, it appears in the LCD with the Delete icon, the f-number, and shutter speed setting.

1 To delete the picture, press the ◀ button.

The Delete Picture screen appears.

2 Use the ▲/▼ buttons to select Yes, then press OK.

If the automatic display disappears, bring it back by pressing the ▶ button.

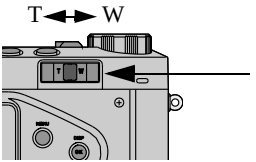
3 You can magnify the picture when it reappears by pressing the ▶ button. Use the ▲/▼ ◀/▶ buttons to pan to the section you want to view.

For more information on magnifying your image, see “Magnifying Pictures” on page 43.

4 Press OK to return to normal view.

Using the Optical Zoom

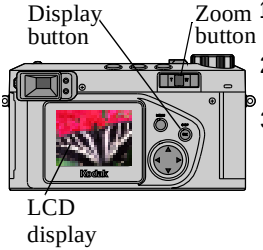
With optical zoom, you can zoom out with Wide Angle (28 mm), which captures more of the surrounding area in your picture, or zoom in with Telephoto (84 mm), which brings the subject three times closer.



1. Set the camera to one of the capture modes. See page 14.
2. Toggle the Zoom button toward **T** for Telephoto, or **W** for Wide Angle.
3. Take the picture.

Using the Digital Zoom

Digital zoom provides two times magnification beyond the optical zoom (above). You may notice a decrease in image quality when using digital zoom.



1. Press the Display button to activate Preview. Use the LCD display to frame your subject.
2. Move the Zoom button to its farthest **T** Telephoto position.
3. Release the Zoom button, then immediately move it again to its farthest **T** position.

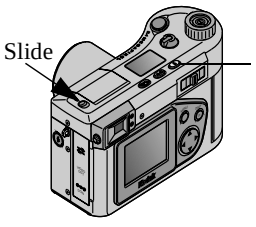
   The image is center-cropped, then magnified. The LCD displays the Zoom magnification level as it changes.

   If your digital zoom option is set to Continuous, step 3 is unnecessary. See page 54 for setting digital zoom options.

Setting the Flash

When you take pictures at night, indoors, or outdoors in heavy shadows, your pictures need flash. The flash has an effective range of 1.6 to 10.5 ft (0.5 to 3.2 m).

When taking Burst pictures (page 20), the built-in flash is automatically turned off.



1 Slide the flash pop-up button to open the flash unit.

2 Press the ⚡ button repeatedly to scroll through the flash options.

The following icons appear in the Status Display:

- **AUTO (no icon)**—flash fires automatically when needed.

- **Fill**—flash fires every time you take a picture, regardless of the lighting conditions.

- **Red-Eye**—flash fires once so the subject's eyes become accustomed to the flash, then fires again when the picture is taken. Ideal for pictures of people.

- **Off**—flash does not fire. Close the flash unit to turn flash off.

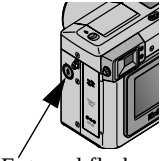
When you open the flash unit again, the camera remembers and restores your last flash setting.

When you are shooting in low-light conditions with the flash turned off, the camera uses slow shutter speeds. Take care to avoid camera shake. Use a tripod or place the camera on a steady surface.

Using an External Flash Unit

You can use an external flash unit when you want additional or specialized lighting. You can use the camera's built-in flash as well to provide extra fill flash.

NOTE: Use either the Manual (page 17) or Aperture Priority (page 19) shooting modes when using an external flash unit. Automatic shooting (P on the Mode Dial)is not available with an external flash unit.


External flash connector

- Plug your external flash unit cable into the external flash connector on the camera.

  The connector accepts all standard external flash cables.
- We recommend that you apply the "Flash" White Balance option (page 31) when using an external flash.

Using the Self-Timer

The Self-Timer creates a 10-second delay between the time you press the Shutter button and the time the picture is taken. This setting is ideal when you want to include yourself in the picture.

1 Press the button until the icon appears in the Status Display.

To cancel the Self-Timer, press the button repeatedly until neither of the button icons appears in the Status Display.

2 Place the camera on a flat steady surface, or tripod.

3 Compose the picture, then press the Shutter button.

The Self-Timer light, located on the front of the camera, turns on for 8-seconds, then blinks for 2 additional seconds before the picture is taken.

3 Customizing Manual Settings

The manual camera settings described in this chapter allow you to customize your camera for more control of your picture results.

To access the settings described in this chapter, the Mode dial must be set to a Capture setting (P, 2.8, 5.6, or 8) before you press the Menu button.

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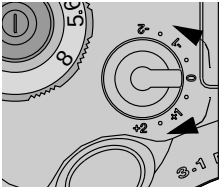
Adjusting the White Balance 31
Selecting a Color Mode.....33
Setting the Picture Quality.....35
Selecting Exposure Metering 37
Setting Picture Sharpness 38
Adjusting the ISO Sensitivity.....39
Setting the Shutter Speed 40
Placing the Date on Pictures.....40

Adjusting the Exposure Compensation

Use the Exposure Compensation dial to control how much light is allowed into the camera. You can adjust the exposure by plus or minus 2 stops in 1/2-stop increments. The Exposure Compensation dial is located on top of the camera.

This optional feature is available in fully automatic (page 16) or Aperture Priority mode (page 19). **It is not available in Manual mode** (page 17).

NOTE: This setting is ideal for controlling scenes in which the light source is behind the subject (backlit), or for correcting pictures that are too light or too dark.



Turn the Exposure Compensation dial to the exposure value you want to use.

- If your pictures are too light, decrease (-) the exposure compensation value.
- If your pictures are too dark, increase (+) the exposure compensation value.

Adjusting the White Balance

Whites can look white in daylight, but different under other lighting conditions. Use the White Balance setting to correct for these types of color shifts that result from shooting pictures under different light sources.

1. Set the Mode dial to a Capture setting (P, 2.8, 5.6, or 8).
2. Press the Menu button to display the Capture Menu screen.
3. Press a ▲/▼ button until the icon is highlighted.
4. Press OK to display the White Balance screen.

5. Press a ▲/▼ button to highlight the White Balance setting you want to use.

- **AUTO (default)**—automatically corrects the white balance. Ideal for everyday picture taking.
- **DAYLIGHT**—Ideal for pictures in natural lighting.
- **FLASH**—Corrects White Balance when using an external flash.
- **TUNGSTEN**—Corrects for the orange cast of household lightbulbs. Ideal for indoor pictures under this lighting without flash.
- **FLUORESCENT**—Corrects for the green cast of fluorescent lighting. Ideal for indoor pictures under this type of lighting without flash.

- **COLOR TEMPERATURE**—with this setting highlighted, press OK to turn on Preview and activate the Kelvin temperature selector.

  -Use the ▲/▼ buttons to select a color temperature between 2,500-10,000°K. The result of the selection is displayed in the LCD.

  -Press OK to accept the setting and return to the Capture Menu screen. Ideal when you know the temperature value of your light source.
  When using the Color Temperature setting, refer to the light source manufacturer for the correct temperature setting.

Color arrows

- **MANUAL**—the Manual White Balance adjustments are displayed in the LCD and are ideal for customizing the color distribution in a picture before it is taken.

  -With the Manual setting highlighted, press OK to turn on Preview and activate the Manual setting.

  -Place a grey or white card in front of the camera lens and use the ▲/▼ ◀/▶ keys to adjust the camera color until the LCD most closely matches the card.

  The color arrows displayed on the screen indicate which colors the ▲/▼ ◀/▶ keys adjust.

-To display the result of the changes, press the Shutter button half-way down while using the arrow keys.

-Press the Shutter button completely down to lock the setting (this will not take a picture), then press OK to return to the Capture Menu screen.

-To reset the Manual setting, put the lens cap on while the Manual White Balance screen is displayed and press the Shutter button.Press OK to accept any White Balance changes and return to the Menu screen.

6 Press Menu to exit the Menu screen.

The White Balance setting remains until you change it.

Selecting a Color Mode

Use the Color Mode setting for controlling color tones and moods. Select from two color settings, three black-and-white settings, and a sepia setting. When activated, the camera Preview displays the color setting selected.

.

1 Set the Mode dial to a Capture setting (P, 2.8, 5.6, or 8).

2 Press the Menu button to display the Capture Menu screen.

3 Press a ▲/▼ button until the icon is highlighted.

4 Press OK to display the Color Mode screen.

5 Press a ▲/▼ button to highlight the color setting you want to use.

- **SATURATED COLOR (default)**—gives a more vibrant look to all colors in your pictures.
- **NEUTRAL COLOR**—gives a more balanced and natural look to all colors in your pictures.
- **BLACK & WHITE**—use this for black and white pictures.
- B&W (Y FILTER)—use this to lighten yellows and darken blues in pictures. Good for creating dramatic skies and water. Refer to traditional photographic methods for optimal results when applying the Y filter.
- B&W (R FILTER)—use this to lighten reds and darken blues and greens in pictures. Ideal for hiding blemishes in portraits, or for making trees and skies more dramatic. Refer to traditional photographic methods for optimal results when applying the R filter.
- **SEPIA**—use this to give pictures a reddish-brown cast. Ideal for creating an antique look to pictures.

6 Press OK to accept the changes and return to the Menu screen.

7 Press Menu to exit the Menu screen.

This setting remains until you change it.

Setting the Picture Quality

Use the Quality setting to select a picture resolution and compression. Picture resolution refers to the number of pixels in an image; compression is a method of reducing file size by carefully encoding data. The relationship between resolution and compression determines the picture quality.

The camera offers four different resolutions. With the highest resolution (3.1 MP), three different compression settings are available: none, some, and high.

Select a high resolution setting for more detailed images and larger print sizes. Use a lower resolution setting for smaller print sizes, and for conserving space on the Picture Card.

All Quality settings are compressed JPEGS except the uncompressed setting, which is a TIFF. The available Quality settings are:

Quality Setting Name (in megapixels)	**Resolution (in pixels)**	**Compression Ratio/File Type**	**File Size (approx.)**
3.1 MP (Uncompr)	2160 x 1440	None/TIFF	9170 KB
3.1 MP (default)	2160 x 1440	1:5/JPEG	960 KB
3.1 MP (High Compr)	2160 x 1440	1:10/JPEG	480 KB
2.2 MP	1800 x 1200	1:5/JPEG	730 KB
1.6 MP	1536 x 1024	1:5/JPEG	550 KB
0.8 MP	1080 x 720	1:5/JPEG	325 KB

To change the Quality setting:

1 Set the Mode dial to a Capture setting (P, 2.8, 5.6, or 8).

2 Press the Menu button to display the Capture Menu screen.

3 Press a ▲/▼ button until the icon is highlighted.

4 Press OK to display the Quality screen.

5 Press a ▲/▼ button to highlight the Quality setting you want to use.

6 Press OK to accept the changes and return to the Menu screen.

7 Press Menu to exit the Menu screen.

This setting remains until you change it.

Selecting Exposure Metering

To ensure proper exposure, your camera features three metering systems for measuring the amount of light entering the camera lens: Multi-Pattern, Center-Weighted, and Center Spot metering.

NOTE: Select a metering system to control how light affects the subject in your pictures.

1. Set the Mode dial to a Capture setting (P, 2.8, 5.6, or 8).
2. Press the Menu button to display the Capture Menu screen.
3. Press a ▲/▼ button until the icon is highlighted.
4. Press OK to display the Metering screen.

5. Press a ▲/▼ button to highlight the Metering system you want to use.

- **MULTI-PATTERN (default)**—evaluates the lighting conditions in the entire scene to give an even picture exposure. Ideal for general picture taking.
- **CENTER-WEIGHTED**—evaluates the lighting conditions of the subject centered in the viewfinder. Ideal for backlit subjects.
- **CENTER SPOT**—similiar to Center-Weighted, except the metering is concentrated on a smaller area of the subject centered in the viewfinder. Ideal when an exact exposure of a specific area in the picture is needed.

6. Press OK to accept the changes and return to the Menu screen.
7. Press Menu to exit the Menu screen.

This setting remains until you change it.

Setting Picture Sharpness

Use the Sharpness setting to highlight or blend the edges of the subject in pictures.

1 Set the Mode dial to a Capture setting (P, 2.8, 5.6, or 8).

2 Press the Menu button to display the Capture Menu screen.

3 Press a ▲/▼ button until the icon is highlighted.

4 Press OK to display the Sharpness screen.

5 Press a ▲/▼ button to highlight the Sharpness setting you want to use.

- **SHARP**—increases contrast on the edges of the image. Ideal when you want to improve the clarity of an image, or if you later may want to crop or cut out specific areas in the picture.
- **STANDARD (default)**—use when no special effect is needed. Ideal for everyday pictures.
- **SOFT**—softens the edges of the image, creating a "soft focus" effect.

6 Press OK to accept the changes and return to the Menu screen.

7 Press Menu to exit the Menu screen.

This setting remains until you change it.

Adjusting the ISO Sensitivity

The ISO setting controls the camera's sensitivity to light. Use a lower ISO setting in brightly lit scenes, use a higher ISO setting for low-light scenes.

1 Set the Mode dial to a Capture setting (P, 2.8, 5.6, or 8).

2 Press the Menu button.

3 Press a ▲/▼ button until the ISO icon is highlighted.

4 Press OK to display the ISO screen.

5 Press a ▲/▼ button to highlight the ISO setting you want to use.

- **AUTO (default)**— when you turn the Mode Dial to P (fully automatic) the camera selects this option and automatically sets an ISO speed based on scene brightness. Ideal for general picture taking.
- **ISO 100**—ideal for daylight still pictures in bright sun, when fine detail is needed. Great for portraits, or nature scenes. When shooting in Manual or Aperture Priority modes, the camera applies an ISO speed of 100.
- **ISO 200**—ideal for cloudy overcast days. Great when you need extra speed without sacrificing image quality.
- **ISO 400**—ideal for dusk, or night pictures when flash is prohibited; great for pictures at sporting events when you need to stop the action; and excellent for indoor shots, with or without flash.

When any setting except Auto is selected, the ISO icon appears in the Status Display.

6 Press OK to accept the changes and return to the Menu screen.

7 Press Menu to exit the Menu screen.

This setting remains until you change it.

Setting the Shutter Speed

The Shutter Speed setting is available in the Capture Menu. For full details on how to set the shutter speed, see page 18 under Shooting in Manual Mode.

Placing the Date on Pictures

Use this setting to imprint the date, or the date and time, on the lower-right corner of the picture.

NOTE: This setting is ideal when you wish to record when a picture was taken; for example, for a birthday or an insurance claim.

1 Make sure the camera clock is set to the correct time (see page 8).

2 Set the Mode dial to a Capture setting (P, 2.8, 5.6, or 8).

3 Press the Menu button to display the Menu screen.

4 Press a ▲/▼ button until the icon is highlighted.

5 Press OK to display the Date Time Stamp screen.

6 Press a ▲/▼ button to highlight the Date Stamp option you want to use.

7 Press OK to accept the changes and return to the Menu screen.

8 Press Menu to exit the Menu screen.

The next time you take a picture, the date stamp is recorded in the lower-right corner of the picture.

This setting remains until you change it.

4 Reviewing Your Pictures

Use the Review setting on the Mode Dial to review and work with the pictures that are stored on the Picture Card in your camera.

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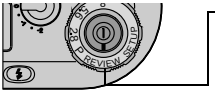
Magnifying Pictures 43
Deleting Pictures 44
Protecting Pictures 45
Running a Slide Show 46
Selecting Pictures for Automatic Printing 47
Viewing Picture Information 49

Viewing Pictures

You can view each picture stored on the Picture Card in your camera in full LCD size, or you can use the Filmstrip feature to view and select from up to three thumbnail-size pictures at one time.

NOTE: This is ideal for sharing pictures on the camera with friends, or for verifying your pictures before you download or print them.



1 Turn the Mode Dial to Review.

The last picture taken is displayed in the LCD with the frame number and the following icons, if activated: Index Print, Print Order, and Protect.

2 Use the arrow buttons to scroll through the pictures: ▶ forwards; ◀ backwards; ▲ first picture; ▼ last picture.

3 To display the Filmstrip, press Menu.

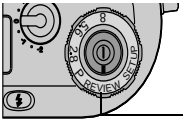
4 Use the ◀/▶ buttons to scroll through the filmstrip. To continuously scroll, press and hold a ◀/▶ button. For fast scrolling through the memory bar, press OK while holding a ◀/▶ button.
When you release the ◀/▶ button, the LCD is refreshed with the new current picture.
The dark section of the memory bar represents the part of the card that is full while the needle locator shows the position of the picture on the card.

5 To exit the filmstrip, press Menu.

Magnifying Pictures

Use the Magnify feature to zoom in on specific parts of a picture. With this feature, you can magnify at two or four times the normal magnification level.

NOTE: This feature is ideal for checking detail and verifying sharp focus on your pictures.



1 Turn the Mode Dial to Review.

2 Press Menu to display the Menu screen.

3 Press a ◀/▶ button until the picture you want to magnify is highlighted.

4 Press a ▲/▼ button until the icon is highlighted.

5 Press OK once to magnify the picture at two times or press twice for four times magnification.

The magnified picture, with magnification level, appears on the LCD.

6 Use the ▲/▼ ◀/▶ buttons to navigate to different parts of the picture.

7 To exit Picture Magnify, press the OK button.

Deleting Pictures

Use the Delete feature to quickly delete one or all pictures from the Picture Card.

NOTE: Delete pictures to free up space on the Picture Card.

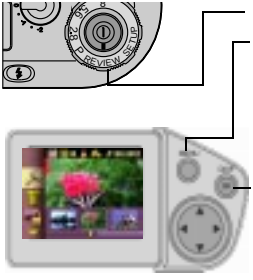
1. Turn the Mode Dial to Review.
2. Press Menu to display the Menu screen.
3. Press a ◀/▶ button until the picture you want to delete is highlighted.
4. Press a ▲/▼ button until the icon is highlighted.
5. Press OK to display the Delete screen.
6. Press a ▲/▼ button until the option you want is highlighted:
   - **PICTURE**—deletes the selected picture.
   - **EXIT**—returns you to the Main screen.
   - **ALL PICTURES**—deletes all of the pictures on the Picture Card. A filmstrip appears at the bottom of the LCD to remind you that all pictures are affected.

   If the picture is Protected (page 45), you must unprotect it before it can be deleted.
7. Press OK.

   When deleting all pictures, select Yes to Delete All Pictures?, then press OK again.
8. To exit Delete, highlight Exit and press OK.

Protecting Pictures

Use the Protect feature to prevent specific pictures from being accidentally deleted from the Picture Card.



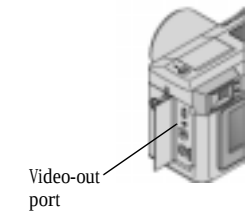
1. Turn the Mode Dial to Review.
2. Press Menu to display the Menu screen.
3. Press a ◀/▶ button until the picture you want to Protect is highlighted.
4. Press a ▲/▼ button until the icon is highlighted.
5. Press OK to protect the picture.

   The Protect icon appears in the LCD with the protected picture.
6. To remove picture protection, press OK again.

Running a Slide Show

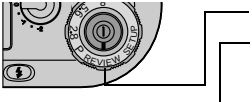
Use the slide show feature to automatically display your pictures on the camera LCD at a selectable interval rate. You can also run a slide show on any video device that is equipped with a video input, such as a television, computer monitor, or digital projector. The slide show feature is not available when using battery power, with Power Save on.

NOTE: The Slide Show feature is ideal for sharing pictures at a social function or at business meetings.



If you are running the slide show on an external video device, plug the video cable in:

- Plug the appropriate end of the video cable (included with your camera) into the video-out port on the camera. Plug the other end into the video-in port on your external device (television, VCR, computer monitor, digital projector).
- Refer to your televsion or other device user's guide for details on video-in setup.



1 Turn the Mode Dial to Review.

2 Press Menu to display the Menu screen.

3 Press a ▲/▼ button until the icon is highlighted.

4 Press OK to display the Slide Show Interval screen.

5 Use the ▲/▼ buttons to select how long each picture is displayed on the LCD (5-99 seconds).

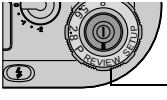
6 Press OK to start the slide show.

7 To cancel the Slide Show, press OK.

Selecting Pictures for Automatic Printing

Use the Print Order feature to select specific pictures and print quantities to be printed automatically to a KODAK Personal Picture Maker, or other direct-print-enabled printers.

NOTE: This feature saves time when printing. When you put the Picture Card into a print order enabled printer, only the images you marked are printed.



1 Turn the Mode Dial to Review.

2 Press Menu to display the Menu screen.

3 Press a ◀/▶ button until the picture you want to print is highlighted.

4 Press a ▲/▼ button until the icon is highlighted.

5 Press OK to display the Print Order screen.

6 Press a ▲/▼ button until the option you want is highlighted:

- **CANCEL PRINT ORDER**—cancels the entire print order from the Picture Card.
- **INDEX PRINT**—orders a contact sheet containing multiple thumb-nail pictures on a sheet of paper.
- **CURRENT PICTURE**—orders the currently selected picture.

- **EXIT**—returns you to the Main screen.
- **ALL PICTURES**—selects all of the pictures on the Picture Card. The filmstrip appears at the bottom of the LCD to remind you that all pictures are affected.

7 Press OK.

8 If you selected Cancel Print Order or Index Print, a screen appears that asks you to confirm your choice. Answer Yes or No. Skip step 9.

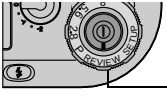
9 If you selected Current Picture or All Pictures, the # Copies screen appears. Press a ▲/▼ button to select the number of prints you want (0-99). The number zero cancels the order for that picture.

10 Press OK.

The Print Order icon appears in the LCD with the ordered picture.

Viewing Picture Information

The Picture Information feature displays specific data for each picture on the Picture Card in your camera. For example, the information includes the picture number, the date and time the picture was taken, and the settings that were used for the picture.



1. Turn the Mode Dial to Review.
2. Press Menu to display the Menu screen.
3. Press a ◀/▶ button until the picture for which you want to view information is highlighted.
4. Press a ▲/▼ button until the icon is highlighted.
5. Press OK to display the Picture Info screen.

   The picture information is view-only and is displayed in the LCD.

   Use the ▲/▼ buttons to scroll up and down through the picture information.
6. To exit Picture Info, press OK.

5 Personalizing Your Camera

This chapter describes how to customize the camera settings according to your personal preferences.

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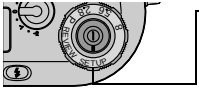
Adjusting the Camera Sounds 56
Setting Video Out 57
Selecting a Language 58
Formatting a Picture Card.....59
Resetting Camera Defaults 60
Viewing Camera Information 61

Selecting a Power Save Setting

The Power Save feature is designed to balance battery consumption with camera performance. Select from three Power Save settings to control the performance of the functions listed below.

The Power Save feature is not available when the AC adapter is being used.

Camera Function	POWER SAVE ON	STANDARD	POWER SAVE OFF
Preview Frame Rate	15 fps	30 fps	30 fps
LCD Brightness	Low	Normal	High
Slide Show Loops	No	Yes (5x)	Yes (5x)
Simultaneous LCD/Television display	No	No	Yes
Automatic Quickview	No	Yes	Yes



1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the Power Save screen.

4 Press a ▲/▼ button to highlight the Power Save option you want to use.

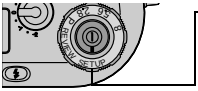
- **OFF**—camera performance has priority over battery consumption. Ideal when battery life is not a primary concern.
- **STANDARD (default)**—battery consumption and camera performance are optimized equally. Ideal for everyday shooting.
- **ON**—battery life has priority over camera performance. Ideal when you have only one battery available.

5 Press OK to accept the changes and return to the Setup menu.

This setting remains until you change it.

Setting Digital Zoom Behavior

Digital zoom provides two times magnification beyond the optical zoom. You can specify how the digital zoom feature behaves when you move the Zoom button to its farthest **T** Telephoto position. See page 24 for how to use digital zoom.



1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the Digital Zoom screen.

4 Press a ▲/▼ button to highlight the Digital Zoom option you want to use.

- **CONTINUOUS**—zooms directly from optical TelePhoto to digital zoom without stopping. Ideal for fast transition from optical to digital zoom.
- **PAUSE (default)**—zoom stops between the limit of optical zoom (3X) and the beginning of digital zoom.
  To use this setting, move the Zoom button to its farthest **T** Telephoto position, release the Zoom button, then immediately move it again to its farthest **T** position.
- **NONE**—disables digital zoom.

5 Press OK to accept the changes and return to the Setup menu.

This setting remains until you change it.

Adjusting the Camera Sounds

The camera provides camera sounds (beeps) to let you know when certain functions are being performed. You can set the camera to make sounds for most functions, for selected functions, or to make no sounds at all.

NOTE: Set the Camera Sounds to OFF when taking pictures at events that require a quiet environment, like a wedding or a play.

1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the Camera Sounds screen.

4 Press a ▲/▼ button to highlight the Sound option you want to use.

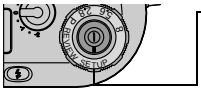
- **ALL ON**—provides camera sounds whenever possible, for most functions.
- **SELECTED ON (default)**—provides camera sounds only when the Shutter is pressed or for camera warnings.
- **OFF**—provides no camera sounds.

5 Press OK to accept the changes and return to the Setup menu.

This setting remains until you change it.

Setting Video Out

The Video Out feature allows you to match the camera's video-out signal to the standard applicable in your area. The default, NTSC, is the standard used in most countries outside of Europe.



1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the VIDEO OUT icon is highlighted.

3 Press OK to display the Video Out screen.

4 Press a ▲/▼ button to highlight the Video Out option you want to use.

- **NTSC (default)**—standard used in most countries except Europe. The United States and Japan use NTSC.
- **PAL (EUROPE)**—standard used in European countries.

5 Press OK to accept the changes and return to the Setup menu.

This setting remains until you change it.

Selecting a Language

The Language feature allows you to display the menus and screen messages in different languages.

NOTE: In certain countries, the language menu is not available. These cameras must be operated only in the language installed at the factory.

1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the Language screen.

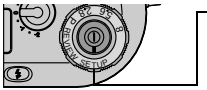
4 Press a ▲/▼ button to highlight the Language you want to use.

5 Press OK to accept the changes and return to the Setup menu.

This setting remains until you change it.

Formatting a Picture Card

You may need to format a Picture Card if the card becomes corrupted. When this happens, an error message appears on the LCD screen. See page 83 for error messages.



1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the Format Card screen.

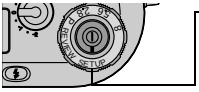
4 Press a ▲/▼ button to highlight the Format option you want to use.

- **CANCEL**—exits without making a change.
- **CONTINUE FORMAT**—**erases all of the information on the card** and formats the Picture Card for use in the camera.

5 Press OK to accept the changes and return to the Setup menu.

Resetting Camera Defaults

The Reset feature allows you to return your customized settings to the original camera defaults. See page 94 for a list of the original camera defaults.



1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the Reset screen.

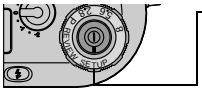
4 Press a ▲/▼ button to highlight the option you want to use.

- **CANCEL**—exits without making a change.
- **CONTINUE RESET**—resets the camera to the original out-of-box factory settings, except for the date and time and camera information.

5 Press OK to accept the changes and return to the Setup menu.

Viewing Camera Information

Use the About feature to find out the name and model of your camera, and what version of software it is running. This information is especially helpful if you need to call for service on your camera.



1 Turn the Mode Dial to Setup.

2 Press a ▲/▼ button until the icon is highlighted.

3 Press OK to display the About screen.
The information that appears is view-only.

4 To exit About, press OK.

6 Installing Your Software

This chapter describes how to install the KODAK software included with your camera.

WINDOWS-Based System Requirements.....page 64
MACINTOSH System Requirements 64
KODAK Software 65
Installing the Software 66

The KODAK DC4800 Installer Software (Installer) included with your camera contains software for WINDOWS-based personal computers and MACINTOSH computers. These applications provide a variety of features that let you access and use the pictures stored on the Picture Card. Detailed information on using the software can be found in the online help supplied with each software application.

WINDOWS-Based System Requirements

- WINDOWS 98 or WINDOWS 2000
- Available USB port or CompactFlash card reader
- Personal computer with CD-ROM drive
  minimum Pentium 90-MHz microprocessor (if using card reader)
  minimum Pentium 200-MHz microprocessor (if using USB cable)
- Color display monitor with a minimum resolution of 640 x 480 (1024 x 768 preferred) and 256 colors: High Color (16-bit) or True Color (24-bit) recommended
- 32 MB or more of available RAM
- 70 MB of available hard disk space

MACINTOSH System Requirements

- Operating system 8.6 or 9
- PowerPC-based MACINTOSH computer, with CD-ROM drive
- Color display monitor with a minimum resolution of 640 x 480 (1024 x 768 preferred) and 256 colors (Thousands or Millions recommended)
- 32 MB or more of available RAM
- 70 MB of hard disk space available
- Available USB port or CompactFlash card reader

KODAK Software

The KODAK DC4800 Digital Camera Software disc includes:

KODAK Digital Camera Software shows the camera as a removable storage device on your desktop and lets you:

- Display and browse pictures stored on a KODAK Picture Card inserted in the camera
- Copy pictures from the Picture Card to your hard disk or other media
- Open a picture directly in any application that supports the JPEG or TIFF file format
- Delete pictures from the Picture Card
- View information on a selected picture
- Select capture and camera settings
- Take a picture while the camera is connected to the computer
- Format the Picture Card

NOTE: Picture Card readers do not allow direct access to KODAK Digital Camera Software. If you download your pictures using a card reader, use a third-party application to access and use your pictures.

Installing the Software

While the Installer is automatically loading your software, take a few minutes to fill out and send in the camera product registration card. This allows you to receive information regarding software updates and registers some of the products included with the camera.

1 Close all other software programs before starting the Installer.

2 Place the Installer CD into the CD-ROM drive.

3 Load the software.

On a WINDOWS-based computer—if Auto Play is enabled, the first install window automatically appears. If the first install window does not automatically appear, choose Run from the Start menu. In the Run dialog box, type the drive letter that contains the CD and type *\setup.exe*. For example: **d:\setup.exe**

On a MACINTOSH computer—double-click the Installer icon.

4 Follow the on-screen instructions to install the software.

5 If prompted, restart the computer when the software installation is complete.

You are now ready to use Digital Camera software. For more detailed information, refer to the online help.

7 Transferring Pictures To Your Computer

This chapter describes how to connect your camera to your computer using the Univeral Serial Bus (USB) cable, download your pictures, and work with the picture files and KODAK Digital Camera Software.

Using a USB Cable Connection.....page 68

Starting KODAK Digital Camera Software.....69

Locating Your Pictures on the Picture Card.....70

Picture Naming Conventions.....71

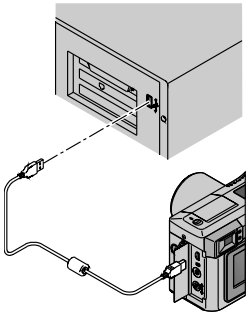
Once the camera is connected to a computer and any required software is installed, you are ready to transfer pictures from the camera to your computer. Refer to the online help for information on each software application supplied with the camera.

You can also download your pictures using a Picture Card reader. If you do not have a card reader, you can purchase one as an accessory. For details about available accessories, ask a dealer of KODAK products, or visit our Web site at http://www.kodak.com/go/accessories.

Using a USB Cable Connection

Follow the directions below to connect your camera to your computer (WINDOWS 98 or 2000-based or MACINTOSH) using the USB cable provided with your camera.

When connecting the camera and downloading pictures, the battery is drained at a fast rate, so use the AC adapter when possible.



1 Plug the appropriate end of the USB cable into the port on your computer marked with the USB symbol.

If the port is not labeled, see your computer User's Guide for a diagram that illustrates all of the external ports.

2 Open the door on the side of the camera.

3 Plug the other end of the USB cable into the camera USB port.

4 Turn on the camera.

On a WINDOWS-based computer, a window appears showing the contents of the Picture Card.

On a MACINTOSH computer, a camera icon appears on the desktop.

If a message is displayed on your computer stating that you are not connected, refer to the PDF document installed with the software (USB.PDF for PC or Connect.PDF for MACINTOSH), or the online help for troubleshooting information.

To access the pictures on your Picture Card, see "Starting KODAK Digital Camera Software" on page 69.

Starting KODAK Digital Camera Software

With the camera connected to your computer, you are now ready to open and use the software that you installed in Chapter 6. For details on using the software, refer to the online help.

WINDOWS-based computers

- To view the pictures on the Picture Card, double-click the DCIM folder in the Camera window and then double-click the 100K4800 folder.

To access online help, open My Computer, right-click the camera icon, and then choose Camera Help from the context menu. Or choose Start → Program → Kodak → DC4800 → Help.

MACINTOSH computers

1. Double-click the camera icon on the desktop.
2. To view the pictures on the Picture Card, double-click the DCIM folder and then double-click the 100K4800 folder.

You can access online help by choosing Camera → Camera Help from the Finder menu.

Locating Your Pictures on the Picture Card

Pictures are stored on the KODAK Picture Card according to a standard agreed upon by many camera manufacturers. This standard allows you to use the Picture Card in different cameras.

If you use a card reader to retrieve your pictures or you cannot locate your pictures using the software, the following description of the camera file structure may be helpful.

- **MISC folder**—contains the Print Order file created when you use the Print Order function.
- **System folder**—used for updating camera firmware.
- **DCIM folder**—the root level folder, it contains the 100K4800 folder. Each time you turn on the camera or insert a different Picture Card, any empty folders within the DCIM folder are removed.
- **100K4800**—a subfolder in the DCIM folder that stores all the pictures taken with the camera. The first time you use the Picture Card, the camera creates a folder named 100K4800. In unusual circumstances, other similarly named folders (e.g., 101K4800) are created. For example, when you use the Picture Card in a different digital camera, or if the 100K4800 folder becomes full.

Picture Naming Conventions

Still pictures are named DCP_nnnn.JPG or DCP_nnnn.TIF, where nnnn represents a picture number between 0001 and 9999. Pictures are numbered in the order in which they are taken. For example, the first picture in the \DCIM\100K4800 folder is DCP_0001.JPG. The camera maintains a count of the number of pictures taken, which is used to determine the number of the next picture taken.

Burst pictures (still pictures taken in rapid succession when the camera is in Burst Mode) are named Bmm_nnnn.JPG, where mm is a burst number from 00 to 99, and nnnn is a sequence number within the burst.

- Even if you transfer pictures to the computer or delete pictures from the Picture Card, the camera uses consecutive numbers for all subsequent pictures. For example, if the last picture taken was DCP_0007.JPG, the next picture is DCP_0008.JPG.
  The nnnn sequence number for a burst continues in the same way. A burst of four pictures taken after DCP_0008 are named B01_0009 through B01_0012.
- When you insert a different Picture Card into your camera, the next picture number is derived by incrementing the higher of the last picture taken by the camera, or the highest existing picture number in the folder on the card.
- When you insert the Picture Card into a different DC4800 camera, the next picture number is derived by incrementing either the highest existing picture number or the highest picture number previously taken by that camera.
- After you take picture DCP_9999.JPG in the \DCIM\100K4800 folder, subsequent pictures appear in a new folder (\DCIM\101K4800) on the Picture Card, beginning with picture DCP_0001.JPG.

- If you use the Picture Card in a camera other than the DC4800 camera, and that camera manufacturer adheres to this file structure standard, the \DCIM folder contains a folder named by that camera. Any pictures taken with that camera are stored in the folder using the naming conventions established by the manufacturer. For more information, refer to the documentation that accompanied that camera.

8 Tips and Troubleshooting

There may be times when you have questions about using your camera. This chapter can point you in the right direction for finding the answers quickly, so you can continue using your camera.

Connecting Your Camera .....page 73

Adjusting Your Monitor for Better Viewing.....73

Getting Better Results from Your Printer.....74

Troubleshooting 75

Connecting Your Camera

If you are getting messages on your computer that state you are not connected, refer to the PDF documents installed with the software, or the online help for troubleshooting information. If you are connecting to a:

- Windows-based USB connection—refer to USB.PDF
- Macintosh computer—refer to Connect.PDF

Adjusting Your Monitor for Better Viewing

Your monitor display settings may need to be adjusted to view pictures from the camera. Refer to your computer User's Guide for information on how to adjust your monitor display settings.

Getting Better Results from Your Printer

You may notice that the colors on your computer screen do not always match those in your documents or prints. This is because monitors and printers use different color systems.

You may be able to achieve more predictable results in your printed documents by:

- Improving the quality of your paper. Copier paper may not offer the same results as coated paper or paper made especially for inkjet printers.
- Adjusting your printer software settings.
- Using fresh ink cartridges. Do not use ink cartridges beyond their life expectancy.

Remember these few tips for printing your pictures:

- Color printing takes more time than black and white. More complex pictures increase the printing and drying time.
- Color printing is more memory intensive than black and white. If your computer gives you an insufficient memory message, you may need to close some applications, change some settings, or add additional memory.
- Color prints may not photocopy as clearly as black and white. If you plan to photocopy documents, you should consider printing the document in grayscale. This setting is usually changed from the Print dialog box.
- Resizing the picture to a smaller size or printing the picture on glossy paper may increase the quality of the print.
- To improve the quality of your prints, you may want to print your pictures on KODAK Inkjet Snapshot Paper (Snapshot Paper). Snapshot Paper is made to work with most inkjet printers to give you clearer, crisper, and more detailed images on your prints.

Troubleshooting

If you are experiencing difficulties with your camera, check the following tables for possible solutions.

Additional technical information is available in the ReadMe file located in the KODAK DC4800 folder. For updates to Troubleshooting information, visit our Web site at http://www.kodak. com.

Computer Monitor		
Problem	**Cause**	**Solution**
The image on your monitor is jagged or inappropriately colored.	Monitor is not set correctly.	Adjust your monitor display settings. See page 73.
Picture Card		
Problem	**Cause**	**Solution**
The camera does not recognize your Picture Card.	The Picture Card may not be CompactFlash certified.	Purchase a certified CompactFlash Picture Card. See page 5.
	The Picture Card may be corrupt or formatted for use in other digital cameras.	Reformat the Picture Card. See page 59.
	The Picture Card is not inserted in camera.	Insert a Picture Card. See page 5.

Camera Communications		
Problem	**Cause**	**Solution**
Computer cannot communicate with the camera.	Camera power is off.	Turn on the camera. See page 6.
	Some Advanced Power Management utilities on laptops can turn off ports to save battery life.	See the Power Management section of your laptop User's Guide to disable this feature.
	Camera is not connected to USB cable, or cable is not connected to the computer USB port.	Connect cable to camera and computer ports. See page 68.
	Software not installed.	Install the software. See page 66.

Camera		
Problem	**Cause**	**Solution**
Shutter button does not work.	Camera is not turned on.	Turn on the camera. See page 6.
	The Picture Card access light is blinking. Camera is processing picture.	Wait until access light stops blinking before attempting to take another picture.
	The Status Display reads **Full**. The Picture Card is full.	Transfer pictures to your computer (page 67), delete pictures on the Picture Card (page 44), or insert a card with available memory (page 5).
Part of the picture is missing.	Something was blocking the lens when the picture was taken.	Keep hands, fingers, or other objects away from the lens when taking pictures.
	Your eye or the picture was not centered correctly in the viewfinder.	Leave space around subject when centering picture in viewfinder.
	Camera Close-Up is activated without using Preview.	Activate Preview when using the Close-Up feature. See page 21.

Camera		
Problem	**Cause**	**Solution**
When you look through the viewfinder, the scene is not clear.	Viewfinder is out of focus.	Adjust the diopter dial. See page 9.
Picture is too dark.	Flash is not on or did not function.	Turn on the flash. See page 25.
	The subject is too far away for the flash to have an effect.	Move so there is no more than 10 ft (3.0 m) between the camera and the subject.
	The subject is in front of a bright light (backlit).	Change your position so the light is not behind the subject.
	The Exposure Compensation is set incorrectly.	Increase the Exposure Compensation. See page 30.
Camera does not turn on.	Battery is not properly installed.	Remove and reinstall the battery. See page 3.
	Battery is not charged.	Replace or recharge the battery. See page 3.

Camera		
Problem	**Cause**	**Solution**
Picture is too light.	The flash is not needed.	Change to Auto flash. See page 25.
	The subject is too close when the flash was used.	Move so there is at least 1.6 ft (0.5 m) between the camera and the subject.
	The light sensor is covered.	Hold the camera so your hands or other objects do not cover the light sensor.
	The Exposure Compensation is set incorrectly.	Decrease the Exposure Compensation. See page 30.
Stored pictures are damaged.	The Picture Card was removed when the Picture Card access light was blinking.	Make sure the Picture Card access light is not blinking before removing the card.
Pictures remaining number does not decrease after taking a picture.	Image Resolution and Quality settings do not take up sufficient space to decrease the picture remaining number.	The camera is operating normally. Continue taking pictures.

Camera		
Problem	**Cause**	**Solution**
Picture is not clear.	The lens is dirty.	Clean the lens. See Appendix.
	Subject too close when taking picture	Stand at least 1.6 ft (0.5 m) in Wide angle, 3.3 ft (1 m) in Telephoto.
	Subject or the camera moved while the picture was taken.	Hold camera steady until the picture is taken.
	The subject is too far away for the flash to be effective.	Move so the subject is less than 10 ft (3.0 m) away.
Slide show does not run on external video device.	Video-Out setting is incorrect.	Adjust the camera Video-Out settings (NTSC or PAL). See page 57.
Slide show does not run on LCD screen.	Power Save is on.	Turn off Power Save feature. See page 52. Use AC adapter to save battery.

Camera LED Status Lights		
Problem	**Cause**	**Solution**
Green ready light does not turn on and the camera does not work.	Battery is low or dead.	Replace or recharge the battery. See page 3.
	Camera is not turned on.	Turn on the camera. See page 6.
Green ready light comes on but camera does not take a picture.	Battery is low.	Replace or recharge the battery. See page 3.
	The Picture Card is full	Transfer pictures to your computer (page 67), delete pictures on the Picture Card (page 44), or insert a card with available memory (page 5).
Green ready light blinks.	Focus and exposure are not locked.	Release the Shutter button and recompose the picture.
Orange ready light comes on briefly.	Flash is charging.	Wait for the flash to charge. Resume picture taking when the light goes off.
	Flash is slow to charge because battery is low.	Check the charge on the battery.

Camera LED Status Lights		
Problem	**Cause**	**Solution**
Orange ready light comes on.	The Picture Card is full	Transfer pictures to your computer (page 67), delete pictures on the Picture Card (page 44), or insert a card with available memory (page 5).
Orange light blinks.	Slow shutter warning. Lack of light or the camera is shaking.	Use a tripod to steady the camera. If in Manual Mode, adjust the shutter speed. See page 18.
Green Picture Card access light is blinking and camera does not take a picture	Picture is being processed and saved to Picture Card.	Wait for the light to stop blinking.

LCD Messages		
Message	**Cause**	**Solution**
Memory Card is Full	The Picture Card is full and cannot hold additional pictures.	Transfer pictures to your computer (page 67), delete pictures on the Picture Card (page 44), or insert a card with available memory (page 5).
Insert Memory Card	There is no Picture Card inserted in the camera.	Insert a Picture Card into the camera. See page 5.
Card Cannot be Read	The Picture Card is corrupted.	Insert a new Picture Card (page 5) or reformat the card (page 59).
Memory Card Requires Formatting		
Print Order too large	Maximum number of images already ordered.	Reduce or delete existing Print Order (page 47).

9 Getting Help

If you need help with your camera, it is available from a number of resources:

- Chapter 8, Tips and Troubleshooting
- Software's manufacturer
- Product information by fax
- Place of purchase
- World Wide Web
- Technical support

Software Help

Help with any **software** packaged with your camera can be obtained from the online help, or by contacting the manufacturer.

Kodak Online Services

- World Wide Web http://www.kodak.com (click Service and Support)

Kodak Fax Support

- U.S. and Canada 1-800-508-1531
- Europe 44-0-131-458-6962
- U.K. 44-0-131-458-6962

Telephone Customer Support

If you have questions concerning the operation of KODAK software or the camera, you may speak directly to a customer support representative.

Before You Call

Before you call to speak to a customer support representative, please have the camera connected to your computer, be at your computer, and have the following information available:

Operating system_____

Processor speed (MHz)_____

PC model_____

Amount of memory (MB)_____

Exact error message you received_____

Version of installation CD_____

Camera serial number_____

Telephone Numbers

- **U.S.**—call toll free, 1-800-235-6325, between the hours of 9:00 a.m. and 8:00 p.m. (Eastern Standard Time) Monday through Friday.
- **Canada**—call toll free, 1-800-465-6325, between the hours of 9:00 a.m. and 8:00 p.m. (Eastern Standard Time) Monday through Friday.
- **Europe**—call the Kodak Digital Imaging Support Centre toll free number associated with your location, or the U.K. toll line, 44-0-131-458-6714, between the hours of 09.00 and 17.00 (GMT/CET) Monday through Friday.

- **Outside the U.S., Canada, and Europe**—calls are charged at National Rate.

Austria/Osterreich	0179 567 357
Belgium/Belgique	02 713 14 45
Denmark/Danmark	3 848 71 30
Ireland/Eire	01 407 3054
Finland/Suomi	0800 1 17056
France	01 55 1740 77
Germany/Deutschland	069 5007 0035
Greece	0080044125605
Italy/Italia	02 696 33452
Netherlands/Nederland	020 346 9372
Norway/Norge	23 16 21 33
Portugal	021 415 4125
Spain/Espana	91 749 76 53
Sweden/Sverige	08 587 704 21
Switzerland/Schweiz/Suisse	01 838 53 51
UK	0870 2430270
International Toll Line	+44 131 4586714
International Toll Fax Number	+44 131 4586962

10 Warranty and Regulatory Information

Warranty Time Period

Kodak warrants the KODAK DC4800 Zoom Digital Camera to be free from malfunctions and defects in both materials and workmanship for one year from the date of purchase.

Warranty Repair Coverage

This warranty will be honored within the geographical location that the product was purchased.

If the equipment does not function properly during the warranty period due to defects in either materials or workmanship, Kodak will, at its option, either repair or replace the equipment without charge, subject to the conditions and limitations stated herein. Such repair service will include all labor, as well as any necessary adjustments and/or replacement parts.

If replacement parts are used in making repairs, these parts may be remanufactured or may contain remanufactured materials. If it is necessary to replace the entire system, it may be replaced with a remanufactured system.

Kodak will also provide telephone assistance during the warranty period.

Limitations

WARRANTY SERVICE WILL NOT BE PROVIDED WITHOUT DATED PROOF OF PURCHASE. PLEASE RETURN THE WARRANTY REGISTRATION CARD WITHIN 30 DAYS OF PURCHASE.

THIS WARRANTY BECOMES NULL AND VOID IF YOU FAIL TO PACK YOUR DC4800 CAMERA IN A MANNER CONSISTENT WITH THE ORIGINAL PRODUCT PACKAGING AND DAMAGE OCCURS DURING PRODUCT SHIPMENT.

THIS WARRANTY DOES NOT COVER: CIRCUMSTANCES BEYOND KODAK'S CONTROL; SERVICE OR PARTS TO CORRECT PROBLEMS RESULTING FROM THE USE OF ATTACHMENTS, ACCESSORIES OR ALTERATIONS NOT MARKETED BY KODAK; SERVICE REQUIRED AS THE RESULT OF UNAUTHORIZED MODIFICATIONS OR SERVICE; MISUSE, ABUSE; FAILURE TO FOLLOW KODAK'S OPERATING, MAINTENANCE OR REPACKAGING INSTRUCTIONS; OR FAILURE TO USE ITEMS SUPPLIED BY KODAK (SUCH AS ADAPTERS AND CABLES).

KODAK MAKES NO OTHER WARRANTIES, EXPRESS, IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE FOR THIS EQUIPMENT OR SOFTWARE.

REPAIR OR REPLACEMENT WITHOUT CHARGE ARE KODAK'S ONLY OBLIGATION UNDER THIS WARRANTY. KODAK WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM THE PURCHASE, USE, OR IMPROPER FUNCTIONING OF THIS EQUIPMENT REGARDLESS OF THE CAUSE. SUCH DAMAGES FOR WHICH KODAK WILL NOT BE RESPONSIBLE INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF REVENUE OR PROFIT, DOWNTIME COSTS, LOSS OF USE OF THE EQUIPMENT, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, OR CLAIMS OF YOUR CUSTOMERS FOR SUCH DAMAGES.

DEPENDING ON YOUR GEOGRAPHICAL LOCATION, SOME LIMITATIONS AND EXCLUSIONS MAY NOT APPLY.

Regulatory Information

FCC Compliance and Advisory

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for additional suggestions.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation.

Canadian DOC Statement

DOC Class B Compliance—This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

Obervation des normes-Class B—Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Classe B prescrites dans les règlements sur le brouillage redioélectrique édictés par le Ministère des Communications du Canada.

11 Appendix

This appendix serves as a resource for specific technical information and care for your camera, and contains the following information:

Original Camera Default Settings .....page 94
DC4800 Zoom Camera Specifications.....95
General Camera Maintenance.....97
General Safety.....97
Using Your Battery.....99

Original Camera Default Settings

Your camera is set to the following defaults when you take the camera out of the box for the first time.

Feature	Default Setting
Camera Sounds (beep)	Selected On
Color Mode	Saturated Color
Date Stamp	None
Digital Zoom Control	Pause
Flash	Auto
ISO Sensitivity	Auto
Exposure Metering	Multi-Pattern
Picture Sharpness	Standard
Power Save	Standard
Quality	3.1 MP (with light compression)
Video Out	NTSC
White Balance	Auto

To reset your camera to these values, see “Resetting Camera Defaults” on page 60.

DC4800 Zoom Camera Specifications

Camera Specifications		
Pixel Resolution (by Quality setting)	3.1 MP	2160 x 1440
	2.2 MP	1800 x 1200
	1.6 MP	1536 x 1024
	0.8 MP	1080 x 720
Color		24-bit, millions of colors
Picture File Format		JPEG or TIFF
Picture Storage		External memory only: ATA compatible CompactFlash card
Viewfinder		Real image
ASA/ISO Sensitivity		Automatic or Configurable
Flash Range	Wide	1.6 ft to 10.5 ft (0.5 to 3.2 m)
	Telephoto	1.6 ft to 6.6 ft (0.5 to 2.0 m)
Power	Battery	Lithium-ion rechargeable
	DC Input	Kodak-specified AC adapter (5V)
Tripod Socket		.25 in. (.006 m) threaded
Video Out		NTSC or PAL

Camera Specifications		
Lens	Type	Optical quality glass
	Maximum Aperture *	**Wide**: f/2.8 **TelePhoto**: f/4.5
	Zoom	6X: 3X Optical zoom 2X Digital zoom
	Focal Length	28 to 84 mm (equivalent to 35mm camera) 6 to 18 mm (actual)
	Focus Distance	**Wide/TelePhoto**: 1.6 ft (0.5 m) to infinity **Close-Up**: 0.7 to 2.3 ft. (0.2 to 0.7 m)
Dimensions	Width	4.7 in. (120 mm)
	Length	2.7 in. (69 mm)
	Height	2.5 in. (65 mm)
Weight		11.6 oz. (328 g) without battery
Operating Temperature		32 to 104° F (0 to 40° C)

* maximum aperture values are for fully automatic shooting mode. In manual modes, aperture is affected by focal length so values can be higher.

General Camera Maintenance

- Clean the outside of the camera by wiping with a clean, dry cloth. Never use harsh or abrasive cleaners or organic solvents on the camera or any of its parts.
- Clean the lens and back LCD screen:

  Do not use cleaning solutions unless they are designed specifically for camera lenses. **Do not wipe the camera lens or LCD screen with chemically treated eyeglass lens tissue. It may scratch the lens.**

1. Blow gently on the lens or LCD screen to remove dust and dirt.
2. Moisten the lens or LCD screen by breathing lightly on it.
3. Wipe the lens or LCD screen gently with a soft, lint-free cloth or an untreated lens-cleaning tissue.

General Safety

- Always follow basic safety precautions. Refer to the "Important Safety Instructions" booklet packed with your camera.
- To keep from damaging your camera, avoid exposing it to moisture and extreme temperatures.
- Do not allow any chemicals, such as suntan lotion to come into contact with the painted surface of the camera.
- Never disassemble or touch the inside of the camera. This could result in electrical shock.
- If you notice smoke or a strange smell coming from the camera, immediately turn off the camera, wait a few minutes until the camera cools, then remove the battery.
- If you use the camera in an airplane, observe instructions of the airline company. Radio waves emitted by the camera may affect the airplane instruments.

- The camera is not waterproof. If the camera has been subjected to inclement weather or you suspect water has gotten inside the camera, turn off the camera and remove the battery and Picture Card. Allow all components to air-dry for at least 24 hours before using the camera again.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING:TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN, ANY LIQUID OR MOISTURE.

Service agreements are available in some countries. Please contact a dealer of Kodak products for more information.

Using Your Battery

- Take care not to touch the battery terminals with metallic objects.
- Do not place the battery on or near fires, stoves, or other high-temperature locations. Do not place the battery in direct sunshine, or use or store the battery inside cars in hot weather. Doing so may cause the battery to generate heat, explode, or ignite. Using the battery in this manner may also result in a loss of performance and shortened life expectancy.
- Immediately discontinue use of the battery if, while using, charging, or storing the battery, the battery emits an unusual smell, feels hot, changes color, changes shape, or appears abnormal in any other way. Contact your sales location or Kodak if any of these problems are observed.
- It is important to use only a Kodak-specified 5V AC Adapter with your camera. Using a different adapter or one with a different voltage could damage your camera and battery.
- Please use care when replacing the battery in the camera. If the battery is incorrectly replaced, there is a danger of explosion. Replace the battery only with the same or equivalent type recommended by the manufacturer.
- Do not recharge the battery for longer periods of time than specified. Do not continue charging the battery if it does not recharge within the specified charging time. Doing so may cause the battery to become hot, explode, or ignite.
- Remove the battery when the camera is stored for extended periods of time. Store the battery in a dry cool place and attach the cap. Always make sure the battery cap is attached when you carry the battery outside of the camera.
- Always follow your battery manufacturer's directions fully. Do not attempt to disassemble, short circuit, or subject the battery to high temperature or fire.

- When using your camera on battery power, we recommend you limit continuous LCD Preview or Review to less than 10-minutes per session. If you are using the camera for longer periods, use the AC adapter to conserve battery charge.
- When disposing of batteries, follow the manufacturer's instructions and any local and national regulations. Kodak suggests customers take advantage of any community battery recycling programs that may exist in your area. Contact your local waste remover or recycler for details.
- Read and follow all warnings and instructions supplied by the battery manufacturer. Keep all batteries out of the reach of children. Do not allow children to remove the battery from the charger or the digital camera.
- When the battery is worn out, insulate the terminals with adhesive tape or similar material before disposal.
- Discard used battery according to the manufacturer's instructions and all applicable local and national regulations. Utilize established community battery recycling programs where they are available.
- In the unlikely event that battery fluid leaks onto your skin, contact Kodak Health, Safety, and Environment Information at 1-716-722-5151 in the U.S.
- In the unlikely event that battery fluid leaks inside the camera, U.S. customers can contact the Kodak Information Center (KIC) at 1-800-242-2424. Customers outside the U.S. can contact their local Kodak Customer Service representative.
- When removing the battery, allow it to cool before touching, since the battery may be hot.

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